



Raspberry Pi

Activity 1: Voting data

Enter the data below into the spreadsheet called 'A1 Resource – RSC voting'.

Week	Telephone Votes	Text Votes
1	189034	134789
2	195754	159348
3	201456	205267
4	212674	219169
5	176432	159438
6	148934	174903
7	153212	175491
8	203256	210475
9	176549	183603
10	224965	226820

Enter data and formulae

In cell E9 enter a formula to calculate the week 1 income from telephone votes. This formula could be `=D9*1.2` but that's not the best one to use.

A better formula would be `=D9*B4`

Use the fill handle to drag the formula down to the cells below.

You should see that something has gone wrong: the formula is not giving the expected answer in these cells. Using the fill handle the formula is dragged down and is changed RELATIVE to the row, so `=D9*B5` becomes `=D10*B6` becomes `=D11*B7`, etc.

We need to change the formula in cell E9 to ABSOLUTE then use the fill handle. An ABSOLUTE formula always refers back to the same cell, so our formula in E9 now looks like this: `=D9*B4`

Note

For the TV show *I'm a Celebrity* telephone votes cost 50p plus an access charge from

your phone provider; it also costs *I'm a Celebrity* to set up this type of call so they pass on the cost to you.

The amount in **B4** is made up of the BT access charge (20p) plus the charge made by *Rock Star Challenge* for the setup plus the amount which goes to *Rock Star Challenge* (50p). All this gives a total of £1.20 for each vote. In real life, different landline providers charge different setup fees, so the cost could be more or less with a different provider.

Cell **E19** calculates the total income from telephone votes. You could use this formula:
=E9+E10+E11..., etc.

This will give the correct result but it's not a very elegant formula; better to use
= SUM(E9:E18)

Now, enter similar formulae in the H and I columns to calculate the income from text votes.

Resources are updated regularly – the latest version is available at: [ncce.io/tcc](https://www.ncce.io/tcc).

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